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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,989	08/06/2003	Mitsumi Ito	61282-034	7464
20277 7	590 07/13/2005		EXAMINER	
MCDERMOTT WILL & EMERY LLP			WHITMORE, STACY	
600 13TH STR WASHINGTO	EET, N.W. N. DC 20005-3096		ART UNIT	PAPER NUMBER
	,		2825	· <u>··</u> ·

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	$\overline{\nu}$			
	10/634,989	ITO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stacy A. Whitmore	2825				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	e correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fr , cause the application to become ABANDO	timely filed days will be considered time om the mailing date of this c NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 A</u>						
,	action is non-final.					
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under E	ex parte Quayle, 1955 C.D. 11,	455 O.G. 215.				
Disposition of Claims						
	Claim(s) <u>1-19,21 and 22</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
·	Claim(s) <u>1-5,15-19,21 and 22</u> is/are rejected.					
<u> </u>	· · · · · · · · · · · · · · · · · · ·					
Application Papers	, 5.55					
· ·	☐ The specification is objected to by the Examiner. ☐ The description is objected to by the Examiner.					
	The drawing(s) filed on <u>06 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
_ '	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
	a) ☐ All b) ☐ Some * c) ☐ None of:					
_ · · · · · · · · · · · · · · · · · · ·						
2. Certified copies of the priority document						
3. Copies of the certified copies of the prio	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not rece	ived.				
Amazhan antiù						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ary (PTO:413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>1/04, 6/04</u> .	5) Notice of Informa 6) Other:	al Patent Application (PT	O-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 2825

DETAILED ACTION

Claims 21 and 22 are objected to because of the following informalities: Claims 21-22 are not in sequential order, claim numbering 20 was omitted. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-5, 15-19, and 21-22 are rejected under 35 U.S.C. 103(a) as being obvious over Hsu (US Patent 6,551,895) in view of Ito (US Patent 6,434,730).

The applied reference has a common inventor and/or assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing

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that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2).

2. As for claims 1-5, 15-19, and 21-22, Hsu discloses the invention substantially as claimed, including a method of generating a pattern for a semiconductor device comprising:

A layout pattern-forming step of designing and arranging a layout pattern of a function element according to information of a semiconductor chip [col. 1-2];

A space area detecting step of detecting a space area in which no layout pattern exists [col. 1-2];

A judging step of judging whether or not an MOS capacitor cell, the insulating film of which is a gate oxide film, can be arranged in the space area [col. 1-2];

Arranging the MOS capacitor cell in the space judged that the MOS capacitor cell can be arranged [col. 1-2];

A logic operation means for performing a logic operation by the space area detecting means and a design rule [col. 1-2];

A dummy pattern adding step is executed for at least one of the wiring layer, the diffusing layer, the gate conductor, and the well [col. 1-2];

Forming pattern/ mask pattern [col. 5- the lithography patterning process uses mask patterns to form the device];

An aggregation of dummy cap cells of the same size and a dummy cap cell not electrically connected [col. 1].

Hsu does not disclose forming a wiring so that a gate conductor of the MOS capacitor cell can be connected to a first electric potential/power supply and a substrate can be connected to a second electric potential/ ground; contact formation;

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Ito discloses forming a wiring so that a gate conductor of the MOS capacitor cell can be connected to a first electric potential/power supply and a substrate can be connected to a second electric potential/ ground; contact formation [col. 6-7].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Hsu and Ito because connecting the MOS capacitor cell so that a gate conductor of the MOS capacitor cell can be connected to a first electric potential/power supply and a substrate can be connected to a second electric potential/ ground and contact formation would benefit Hsu's method by allowing for stable operation and noise absorption of a power supply which would improve semiconductor performance parameters [see Ito, Col. 7, lines 1-26].

- 3. Claims 6-8, 9-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to disclose either singularly or in combination the step of extracting as claimed in claim 6, wherein the wiring arrangements are as claimed in claims 9-10, and the dummy pattern adding step of claim 11.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy A. Whitmore whose telephone number is (571) 272-1685. The examiner can normally be reached on Monday-Thursday, alternate Friday 6:30am 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stacy A Whitmore Primary Examiner Art Unit 2825

SAW July 11, 2005 MW